

**IMPEDANCE MATCHING CIRCUIT WITH SIMULTANEOUS SHIELDING OF**  
**PARASITIC EFFECTS FOR**  
**OPTICAL TRANSCEIVER MODULES**

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**ABSTRACT OF THE DISCLOSURE**

An RF device includes a signal layer disposed over a ground plane having radio frequency (RF) transmission lines configured and dimensioned to provide impedance matching along the RF lines. A shield is formed as a part of the RF lines and disposed below the RF choke of a DC current supply to form an intermediate capacitance between the choke and the shield to control parasitic effects.

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